Table 1: Summary of Used Nuclear Fuel Disposition Research and Development Subprogram<sup>1</sup>

Activity	\$ (FY11)	\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>2</sup>	\$ Planned (FY14)	Legal Authority
Used Fuel Research and Development Activities (Table 2 below)	\$27,255,983	\$37,873,898	\$21,416,061	\$17,485,672	\$30,000,000	See legal authorities listed for each activity in Table 1 below.
Nuclear Fuels Storage and Transportation Activities (Table 3 below)	\$0	2,370,584	\$8,508,012	\$22,034,605	\$30,000,000	See legal authorities listed for each activity in Table 2 below.

Used Fuel Research and Development Activities are generic research and development activities being carried out under the Atomic Energy Act of 1954 and are not radioactive waste disposal activities under titles I and II of the Nuclear Waste Policy Act of 1982 (NWPA). Therefore, no funds from the Nuclear Waste Fund have been or will be provided by the Department for these activities. See NWPA, sec. 302(d)(2). The Administration's FY 2014 Budget requests \$30 million of general revenue funds for Used Fuel Research and Development Activities (see "Used nuclear fuel disposition research and development" on page NE-45 of DOE's FY 2014 Congressional Budget Request).

Nuclear Fuels Storage and Transportation Activities, which began in FY 2012, are radioactive waste disposal activities under titles I and II of the NWPA. Section 302(d) provides for the use of the Nuclear Waste Fund with respect to these activities. However, in the Consolidated Appropriations Act, 2012, Congress appropriated the use of general revenue funds for these activities. In FY 2013, these activities continued on the basis of funding appropriated by several Continuing Resolutions. The Administration's FY 2014 Budget requests \$30 million for Nuclear Fuels Storage and Transportation Activities (see "Nuclear high-level waste management and disposal system activities" on pages NE-45 and NE-46 of DOE's FY 2014 Congressional Budget Request). Of this amount, the portion allocated for commercial activities (\$24 million) is requested from the Nuclear Waste Fund and the remaining \$6 million is allocated for defense activities.

<sup>&</sup>lt;sup>1</sup> The subprogram consists of two groups of activities: Used Fuel Research and Development Activities (Table 2 below) and Nuclear Fuels Storage and Transportation Activities (Table 3 below).

<sup>&</sup>lt;sup>2</sup> These amounts reflect carry over general revenue funds from previous years

Enclosure **Table 2: Used Fuel Research and Development Activities** 

	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>3</sup>	\$ Planned (FY14) <sup>4</sup>	Legal Authority
Cross cutting Activities	Total for Cross cutting Activities for all the UFD Campaign	\$2,416,145	\$3,228,942	\$893,037	\$2,394,585	See footnote 3	
for all the UFD Campaign	Reporting, budgeting, planning	\$1,845,164	\$2,648,240	\$724,024	\$2,224,528	See footnote 3	<ul> <li>Atomic Energy Act of 1954 ("AEA") §§ 3, 31, 53, 55, 91, 161</li> <li>Energy Reorganization Act of 1974 ("ERA") § 104</li> <li>Department of Energy Organization Act ("DOEOA"): 42 U.S.C. §§ 7133, 7151</li> </ul>
	International	\$570,981	\$580,702	\$169,013	\$170,057	See footnote 3	
	Report on the Status of UFD Campaign International Activities in Disposal Research (1/31/2014)						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>

<sup>&</sup>lt;sup>3</sup> See footnote 2 above.

<sup>&</sup>lt;sup>4</sup> As explained in footnote 1 above, the Administration's FY 2014 Budget requests \$30 million for used fuel research and development activities. See "Used nuclear fuel disposition research and development" on page NE-45 of DOE's FY 2014 Congressional Budget Request. The FY 2014 Budget contains no further breakdown of how these funds will be allocated.

	Activity, Deliverable,				\$	\$	
	and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
	Total for Repository and Disposal Research	\$15,946,534	\$21,713, 234	\$12,508, 403	\$9,365,5 45	See footnote 3	
	Thermal Load Management & Design Concepts	\$2,851,207	\$1,388,840	\$597,266	\$390,056	See footnote 3	
Repository and Disposal	<ul> <li>Reference         Disposal         Concepts:         Description         and Thermal         Analysis         (11/15/2012)     </li> </ul>						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
Research	Generic Engineered Barrier System Evaluations	\$6,801,314	\$4,725,070	\$2,428,258	\$1,835,145	See footnote 3	
	• EBS Model Development and Eval Report (9/27/2013)						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	Used Fuel     Degradation:     Experimental     and     Modeling     Report     (10/17/2013)						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	International     Collaboration     s on     Engineered						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>

					\$	\$	
	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
Repository	Barrier Systems: Experimental and Modeling Investigation s Report (12/11/2013)						
Disposal Research	Generic Natural System Evaluations	\$1,269,854	\$4,806,911	\$3,340,519	\$2,642,504	See footnote 3	
	• Report on a GIS Database for Alternative Host Rocks and Sensitivity to Potential Siting Guidelines (12/6/2013)						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
	Report on modeling fluid flows in natural system, model validation and demonstratio						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>3</sup>	\$ Planned (FY14) <sup>4</sup>	Legal Authority
	n (12/15/2013)						
Repository	Report on     Fluid flow     model     development     for     representativ     e geologic     media     (12/16/2012)						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
and Disposal Research	Report on THMC modeling of the near field evolution of a generic clay repository:     Model validation and demonstratio n (8/15/2013)						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
	Report on modeling radionuclide interaction and transport						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

				liciosuic	\$	\$	
	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
	in representativ e geologic media (9/15/2013)						
Repository and Disposal Research	<ul> <li>Natural         System         Evaluations         International         Collaboration         s Progress         Report         (12/9/2013)</li> </ul>						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
	Generic Disposal System Level Modeling	\$3,170,337	\$2,894,146	\$1,729,923	\$1,296,454	See footnote 3	
	• Generic Safety Case Report (1/31/2013)						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	<ul> <li>Generic         Disposal         System         Modeling         Report         (11/16/2013)     </li> </ul>						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
	Inventory	\$506,525	\$2,346,904	\$333,466	\$246,463	See footnote 3	- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

				\$	\$	
Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
Low Level Radioactive Waste Disposition from Repackaging DPCs	\$451,015	\$251,149	\$76,950	\$321,801	See footnote 3	
<ul> <li>LLW         Radionuclid e Inventory         Data         (9/30/2013)     </li> </ul>						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
DPC Direct Disposal Investigations	\$0	\$694,400	\$756,099	\$489,249	See footnote 3	
<ul> <li>Preliminary Report on DPC Disposal Alternatives (8/30/2013)</li> </ul>						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
Deep Borehole Disposal	\$0	\$410,877	\$418,920	\$502,702	See footnote 3	
Deep     Borehole     Disposal     Research     RD&D     Needs and     Criteria and     Alternatives     for     Demonstrati     on Site						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

Activity, Deliverable,				\$	\$	
and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
Selection (10/25/2013)	(1.11)	(1 112)	(1110)	1110	(111-1)	
Salt R&D	\$896,281	\$4,194,938	\$2,827,003	\$1,641,172	See footnote	
<ul> <li>Couple         Model for         Heat and         Water         Transport in         a HLW         Repository         (9/30/2013)</li> </ul>					_	- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
<ul> <li>Brine         Migration         Experimental         Studies for         Salt         Repositories         Report –         FY13         (9/25/2013)</li> </ul>						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
RD&D for the Advancemen t of Science and Engineering Supporting						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

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Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>3</sup>	\$ Planned (FY14) <sup>4</sup>	Legal Authority
Geologic Disposal in Bedded Salt - March 2013 Workshop Outcomes (5/31/2013)						
• Proceedings: 3 <sup>rd</sup> US/German Workshop on Salt Repository Research, Design, and Operation (3/29/2013)						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
• Establishing the Technical Basis for Disposal of Heat-generating Waste in Salt (7/29/2013)						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151
<ul> <li>Coupled         Thermal-         Hydrological-         Mechanical         Processes in     </li> </ul>						- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151

	A district Delice wells				\$	\$	
	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	Planned FY13 <sup>3</sup>	Planned (FY14) <sup>4</sup>	Legal Authority
	Salt (11/15/2013						
	Total for Storage and Transportation Research	\$8,893,304	\$12,931,722	\$8,014,621	\$5,725,542	See footnote 3	
	Field Demonstration	\$3,726,807	\$3,009,574	\$1,767,787	\$1,545,674	See footnote 3	
Storage and Transporta	/						<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
tion Research	Storage and Transportation Experiments	\$2,504,926	\$3,101,878	\$3,517,609	\$2,612,797	See footnote 3	
	Data report on ring compression and DBTT tests for PWR cladding (9/30/2013)						<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	<ul> <li>Data report on hydrogen doping and irradiation in HFIR (9/30/2013)</li> </ul>						<ul> <li>AEA §§ 3, 31, 53, 55,</li> <li>91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§</li> <li>7133, 7151</li> </ul>
	Data report on hydrogen doping/distribution tests (4/30/2013)						<ul> <li>AEA §§ 3, 31, 53, 55,</li> <li>91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§</li> <li>7133, 7151</li> </ul>

				iciosuic		_	
	Activity, Deliverable, and Completion Date	\$ (FY11)	\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>3</sup>	\$ Planned (FY14) <sup>4</sup>	Legal Authority
Storage and Transporta tion Research	<ul> <li>Data report on corrosion testing of stainless steel SNF storage canisters (9/30/2013)</li> </ul>						<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	Storage and Transportation Engineering Analysis	\$0	\$3,922,498	\$1,399,448	\$923,566	See footnote 3	
	Report on methodology to estimate used fuel cladding hydride reorientation during thermal excursions simulated during drying (8/30/2013)						<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	Transportation	\$1,611,502	\$2,634,476	\$1,189,691	\$446,088	See footnote 3	
	Conduct assembly shaker table test. Prepare test report. (6/30/2013)						<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
	Security	\$1,050,068	\$263,295	\$140,087	\$197,417	See footnote 3	

Activity, Deliverable, and Completion Date		\$ (FY12)	\$ (FY13)	\$ Planned FY13 <sup>3</sup>	\$ Planned (FY14) <sup>4</sup>	Legal Authority
• Review of Security Strategies for Used Fuel Storage and Transportatio n for a Consolidated Storage Facility (06/21/2013)						<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> </ul>
Grand Total	\$27,255,983	\$37,873,898	\$21,416,061	\$17,485,672	\$30,000,000	

**Table 3: Nuclear Fuels Storage and Transportation Activities** 

	Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
Storage	Evaluate Alternative Generic Design Concepts for Consolidated Interim Storage.  • AREVA Design Concepts Report (2/28/13)  • EnergySolutions Design Concepts Report (2/28/13)  • Shaw Design Concepts Report (2/28/13)  • AREVA Transfer of UNF Stored in Non- Disposable Canister Report (8/30/13)  • Shaw Transfer of UNF Stored in Non- Disposable Canister Report (8/30/13)  • A Project Concept for Nuclear Fuels Storage and	408,007	1,940,262	3,625,227	See footnote 4	- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA § 142(b)

<sup>&</sup>lt;sup>5</sup> See footnote 2 above.

<sup>&</sup>lt;sup>6</sup> As explained in footnote 1 above, the Administration's FY 2014 Budget requests \$30 million for nuclear fuels storage and transportation activities. See "Nuclear high-level waste management and disposal system activities" on pages NE-45 and NE-46 of DOE's FY 2014 Congressional Budget Request. The FY 2014 Budget contains no further breakdown of how these funds will be allocated.

		_	Eliciosule			
	Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13)⁵	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
	Transportation (6/13/13)					
	Continue the conceptual design for a generic storage facility and supporting transportation system.	0	0	8,000,000 <sup>7</sup>		<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 142(b), 180</li> </ul>
	Develop Pilot Project Conceptual Plan (includes functions and requirements, inventory baseline)	0	244,319	307,717	See footnote 4	<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 142(b)</li> </ul>
Transporta tion	Transportation Institutional Activities  • Draft Revised Section 180(c) Policy (9/30/13)  • Develop Draft National Transportation Plan (9/30/13)  • Draft Preliminary Routes for Shipments from Shutdown Reactors (9/30/13)  • Develop routing models for shipment of used nuclear fuel (9/30/13)	137,504	361,466	1,375,395	See footnote 4	<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 180</li> </ul>

 $<sup>^{7}</sup>$ Unobligated funds for this activity will not be allocated until FY 2014.

Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
Update the National Transportation Plan to address initial shipments from shutdown reactors to a generic consolidated storage facility.					<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 180</li> </ul>
Cooperative agreements with State Regional Groups and tribes	29,634	341,879	1,495,366	See footnote 4	<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 180</li> </ul>
Evaluate shipment of used fuel from shutdown reactor sites  • Preliminary Evaluation of Removing UNF from Nine Shutdown sites (10/31/12)  • Stranded Site Deinventorying Report (9/30/13)	213,598	227,446	826,810	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA § 180
Complete an analysis for initial used fuel shipments from shutdown reactor sites.					<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 180</li> </ul>
Assess Transportation Hardware needs (casks and	0	6,692	200,000	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104

	Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
	rolling stock)  • Preliminary Hardware Alternatives Analysis Report (9/30/13)					- DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA § 180
	Review of full scale rail cask severe accident tests  Review of Full Scale Rail Cask Severe Accident Test Studies Report (7/26/13)	0	77,568	100,000	See footnote 4	<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA § 180</li> </ul>
	Development of Codes to support Transportation Systems  • RADTRAN Model and Calculation of Occupational Dose from a Transportation Accident (8/9/13)  • TRAGIS Updated Intermodal Feasibility Study and Updated GIS Layers (9/30/13)	0	400,464	900,000	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA § 180
Strategic	Conduct system analyses to inform future decisions for including initial consolidated	877,732	141,513	3,593,989	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§

-			LifeTosure			
	Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
	interim storage, use of standardized containers, improving efficiency of transportation  • System Architecture Evaluation (10/31/13)  • Backend Fuel Cycle Cost Comparison (12/17/12)					7133, 7151 - NWPA §§ 142(b), 180
	Conduct system architecture and operating evaluations of various used fuel management systems.					<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 111, 142(b), 180</li> </ul>
	Collect, develop, process, and management of information needed for used nuclear fuel management system development  Transport/Shipping Database Report (8/12/13)  Centralized Used Fuel Resource for Information Exchange Website (8/30/13)	0	354,935	1,107,806	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA §§ 111, 142(b), 180

Ad	ctivity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
Ev	valuate feasibility and develop implementation plan for standardized transportation, aging, and disposal canisters  • AREVA Standardized Canister Feasibility Report (6/30/13)  • EnergySolutions Standardized Canister Feasibility Report (6/30/13)  • Path-forward for Standardized Canisters Recommendation Report (9/30/13)	534,154	552,205	2,645,466	See footnote 4	- AEA §§ 3, 31, 53, 55, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA §§ 111, 142(b), 180
Co	ontinue the evaluation of standardized containers for storage, transportation, and potentially disposal.					<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 111, 142(b), 180</li> </ul>
Ех	xpand capabilities for assessing issues related to the aging and safety of storing and transporting used nuclear fuel	0	2,407,776	2,728,039	See footnote 4	<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 111, 142(b), 180</li> </ul>

	Activity, Deliverable, and Completion Date	\$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
	<ul> <li>Complete synchronization of computational packages (UNF-ST&amp;DARDS) (12/21/12)</li> <li>Complete Database with Documentation (UNF-ST&amp;DARDS) (3/22/13)</li> <li>Demonstration of UNF-ST&amp;DARDS Capabilities (4/26/13)</li> <li>SCALE Enhancements to support used nuclear fuel safety evaluations (9/30/13)</li> </ul>					
	General Activities to support Transportation, Siting, and Storage (Project Management, Technical Support)  • Draft Project Plan (3/31/2013)	0	895,307	2,502,307	See footnote 4	<ul> <li>AEA §§ 3, 31, 53, 55, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 111, 142(b), 180</li> </ul>
Siting	Develop data based off past siting efforts  • Siting Experience Archive (3/29/13)	117,730	245,863	382,270	See footnote 4	- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§ 7133, 7151 - NWPA §§ 111, 142(b)
	Analyze and evaluate public preferences related to	52,225	310,317	752,225	See footnote 4	- AEA §§ 3, 31, 91, 161 - ERA § 104 - DOEOA: 42 U.S.C. §§

		Lifetosure			<del>r</del>
Activity, Deliverable, Completion Date	and \$ FY12)	\$ (FY13)	\$ Planned (FY13) <sup>5</sup>	\$ Planned (FY 14) <sup>6</sup>	Legal Authority
siting, characterizat operation of facilitie storage and disposa  Public Preference Study related to Facilities (2/1/13)  Public Preference related to Characterization operation of Face (9/30/13)  Summary of Approaches for Consent-Based Radioactive Was Management Face Evidence-Based Considerations a Case Studies (3)	s for als ces Siting S) ce Study and cilities Siting of ste acilities:				7133, 7151 - NWPA §§ 111, 142(b)
Continue developing pl a consent-based sit process.					<ul> <li>AEA §§ 3, 31, 91, 161</li> <li>ERA § 104</li> <li>DOEOA: 42 U.S.C. §§ 7133, 7151</li> <li>NWPA §§ 111, 142(b)</li> </ul>
Grand Total	2,370,584	8,508,012	22,034,605	30,000,000	